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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,272	08/05/2003	Michael T. Fox	IEQ07-01(AIR0007)	7068
58406 7 BARRY W. CH.	590 03/26/200 APIN, ESQ.	EXAM	EXAMINER	
	LLECTUAL PROPER	MAYEKAR	MAYEKAR, KISHOR	
WESTBOROUGH OFFICE PARK 1700 WEST PARK DRIVE			ART UNIT	PAPER NUMBER
WESTBOROUG	GH, MA 01581	1753		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/26/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/634,272	FOX ET AL.				
		Examiner	Art Unit				
		Kishor Mayekar	1753				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
	ORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 MOI	NTH(S) OR THIRTY (30) DAYS				
WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 136(a). In no event, however, may a repl will apply and will expire SIX (6) MONTH a, cause the application to become ABAN	ATION.  by be timely filed  strom the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 31 Ja	anuary 2007.					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	11, 453 O.G. 213.				
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>9-12</u> is/are rejected.						
· · · · ·	Claim(s) is/are objected to.						
8)∐	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	ion Papers						
9)□	The specification is objected to by the Examine	er.					
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	under 35 U.S.C. § 119						
		priority under 35 U.S.C. & 1	19(a)-(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
,-	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Sun					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Informal Patent Application							
Paper No(s)/Mail Date <u>08/03</u> . 6) ☐ Other:							

## DETAILED ACTION

#### Election/Restrictions

1. Applicant's election without traverse of invention of Group II, claims 9-12 in the reply filed on 31 January 2007 is acknowledged.

## Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 9-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 9, the recitations "the particulate level" and "the amount" lack antecedent basis.

In claim 10, the recitation "the ozone level" lacks antecedent basis.

In claim 11, the recitations "the particulate level", "the concentration" and "the amount" lack antecedent basis.

In claim 12, the recitation "the ozone level" lacks antecedent basis.

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## Claim Rejections - 35 USC \$ 102 and \$ 103

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and

(4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. Claims 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Fleischer (US 6,528,023 B2). Fleischer's invention is directed to a method for the treatment of air of at least one room by air ionization. Fleischer discloses that the method comprises the steps of ionizing the air; determining values of volatile hydrocarbons (read on the particulate), ozone and volatile oxidizable air components in the air (read on the oxidizable gas); and using the determined values to control a level of the air ionizing (Fig. 1; col. 4, line 42 through col. 5, line 4; col. 5, lines 15-29; and col. 2, lines 28-58).
- 7. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fleischer '023 in view of Taylor et al. (US 2004/0202547 A1). Fleischer is applied as above. If there is a difference between Fleischer and the above claims, it will be the determining of the particulate level in the air. Taylor shows in an air cleaner by air ionizing the provision of one or more environmental sensors connected to a control unit to control the level of air ionizing where the environmental sensor includes a particular sensor and an ozone sensor ([0029], [0030] and abstract). The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Fleischer's teachings as suggested by Taylor because this would result in improving air quality by ionizing air according to the changes in the environment.

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#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-

1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

Kishor Mayekar Primary Examiner

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